Zegang Ding

List of Publications by Year
in descending order

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papers	citations	h-index	g-index

94	94	94	535
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6718-6734.	6.3	61
2	A DBS Doppler Centroid Estimation Algorithm Based on Entropy Minimization. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3703-3712.	6.3	47
3	Radar Parameter Design for Geosynchronous SAR in Squint Mode and Elliptical Orbit. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2720-2732.	4.9	46
4	Multi-Target Position and Velocity Estimation Using OFDM Communication Signals. IEEE Transactions on Communications, 2020, 68, 1160-1174.	7.8	40
5	A Ship ISAR Imaging Algorithm Based on Generalized Radon-Fourier Transform With Low SNR. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6385-6396.	6.3	37
6	A Modified Frequency Domain Algorithm Based on Optimal Azimuth Quadratic Factor Compensation for Geosynchronous SAR Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1119-1131.	4.9	35
7	Improved Motion Compensation Approach for Squint Airborne SAR. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4378-4387.	6.3	30
8	A Modified Fixed-Point Chirp Scaling Algorithm Based on Updating Phase Factors Regionally for Spaceborne SAR Real-Time Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7436-7451.	6.3	30
9	A 2-D Nonlinear Chirp Scaling Algorithm for High Squint GEO SAR Imaging Based on Optimal Azimuth Polynomial Compensation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5724-5735.	4.9	28
10	SAR Parametric Super-Resolution Image Reconstruction Methods Based on ADMM and Deep Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10197-10212.	6.3	22
11	Beam scan mode analysis and design for geosynchronous SAR. Science China Information Sciences, 2017, 60, 1.	4.3	21
12	Efficient Nonparametric ISAR Autofocus Algorithm Based on Contrast Maximization and Newtonâ€™s Method. IEEE Sensors Journal, 2021, 21, 4474-4487.	4.7	21
13	An Optimal Resolution Steering Method for Geosynchronous Orbit SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1732-1736.	3.1	20
14	A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 606-610.	3.1	20
15	Strip Layering Diagram-Based Optimum Continuously Varying Pulse Interval Sequence Design for Extremely High-Resolution Spaceborne Sliding Spotlight SAR. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6751-6770.	6.3	20
16	Improved Stepped-Frequency SAR Imaging Algorithm With the Range Spectral-Length Extension Strategy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1483-1494.	4.9	18
17	Motion and Doppler Characteristics Analysis Based on Circular Motion Model in Geosynchronous SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1132-1142.	4.9	18
18	An Improved PolSAR Image Speckle Reduction Algorithm Based on Structural Judgment and Hybrid Four-Component Polarimetric Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4438-4449.	6.3	17

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19	An improved motion compensation method for high resolution UAV SAR imaging. Science China Information Sciences, 2014, 57, 1-13.	4.3	16
20	An Autofocus Approach for UAV-Based Ultrawideband Ultrawidebeam SAR Data With Frequency-Dependent and 2-D Space-Variant Motion Errors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	16
21	Compact Ground-Based Interferometric Synthetic Aperture Radar: Short-Range Structural Monitoring. IEEE Signal Processing Magazine, 2019, 36, 42-52.	5.6	15
22	Automatic Target Recognition Based on Alignments of Three-Dimensional Interferometric ISAR Images and CAD Models. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4872-4888.	4.7	15
23	A Subspace Hybrid Integration Method for High-Speed and Maneuvering Target Detection. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 630-644.	4.7	14
24	Geosynchronous SAR: System and Signal Processing. , 2018, , .		13
25	Advanced range migration algorithm for ultraâ€high resolution spaceborne synthetic aperture radar. IET Radar, Sonar and Navigation, 2013, 7, 764-772.	1.8	11
26	A Range Grating Lobes Suppression Method for Stepped-Frequency SAR Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5677-5687.	4.9	11
27	Geoâ€location error analysis in geosynchronous SAR. Electronics Letters, 2014, 50, 1741-1743.	1.0	10
28	Parametric Image Reconstruction for Edge Recovery From Synthetic Aperture Radar Echoes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2155-2173.	6.3	9
29	Deramp range migration processing for space-borne spotlight synthetic aperture radar. Advances in Space Research, 2008, 41, 1822-1826.	2.6	8
30	SAR Doppler Ambiguity Resolver Based on Entropy Minimization. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4405-4416.	6.3	8
31	A Motion Parameter Estimation Method for Radar Maneuvering Target in Gaussian Clutter. IEEE Transactions on Signal Processing, 2019, 67, 5433-5446.	5.3	8
32	Estimation of Aircraft Altitude Based on Squint Mode SAR Data. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 135-139.	3.1	7
33	Sliding Spotlight Mode Imaging with GF-3 Spaceborne SAR Sensor. Sensors, 2018, 18, 43.	3.8	7
34	Effect Analysis of Antenna Vibration on GEO SAR Image. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1708-1721.	4.7	7
35	Multidimensional Spectral Super-Resolution With Prior Knowledge With Application to High Mobility Channel Estimation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2836-2852.	14.0	7
36	Channel Error Effect Analysis for Reconstruction Algorithm in Dual-Channel SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1563-1567.	3.1	7

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37	Parametric Translational Compensation for ISAR Imaging Based on Cascaded Subaperture Integration With Application to Asteroid Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
38	Spectrum Recovery for Clutter Removal in Penetrating Radar Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6650-6665.	6.3	6
39	Radar Detection of Moderately Fluctuating Target Based on Optimal Hybrid Integration Detector. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2408-2425.	4.7	6
40	Multi-Angle SAR Sparse Image Reconstruction With Improved Attributed Scattering Model. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1188-1192.	3.1	6
41	Spatially Variant Sidelobe Suppression for Linear Array MIMO SAR 3-D Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	6
42	Tomographic SAR imaging with large elevation aperture: a P-band small UAV demonstration. Science China Information Sciences, 2022, 65, 1.	4.3	6
43	A novel DEM reconstruction strategy based on multi-frequency InSAR in highly sloped terrain. Science China Information Sciences, 2017, 60, 1.	4.3	5
44	Linear-Array-MIMO SAR Tomography: An Autofocus Approach for Time-Variant and 3-D Space-Variant Motion Errors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	5
45	The First Helicopter Platform-Based Equivalent GEO SAR Experiment With Long Integration Time. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8518-8530.	6.3	5
46	An improved inverse synthetic aperture radar range alignment method based on maximum contrast. Journal of Engineering, 2019, 2019, 5467-5470.	1.1	5
47	An Autofocus Back Projection Algorithm for GEO SAR Based on Minimum Entropy. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
48	Improved spectrum reconstruction technique based on chirp rate modulation in stepped-frequency SAR. Science China Information Sciences, 2015, 58, 1-11.	4.3	4
49	Road Network Extraction From Low-Contrast SAR Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 907-911.	3.1	4
50	Near-Field Phase Cross Correlation Focusing Imaging and Parameter Estimation for Penetrating Radar. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 598-611.	6.3	4
51	Parametric Synthetic Aperture Radar Image Recovery for Multiple Linear Structures: An Image Domain Approach. Remote Sensing, 2020, 12, 1996.	4.0	4
52	Blocked Azimuth Spectrum Reconstruction Algorithm for Onboard Real-Time Dual-Channel SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
53	Preliminary Result of MIMO SAR Tomography via 3D FFBP. , 2020, , .		4
54	Multi-Layer Overlapped Subaperture Algorithm for Extremely-High-Squint High-Resolution Wide-Swath SAR Imaging with Continuously Time-Varying Radar Parameters. Remote Sensing, 2022, 14, 365.	4.0	4

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55	A continuous PRI variation method for geosynchronous SAR with elliptical orbit. , 2015, , .		3
56	Phase unwrapping method based on multiâ€frequency InSAR in highly sloped terrain. Electronics Letters, 2016, 52, 1058-1059.	1.0	3
57	A new Doppler centroid estimation method for high-squint curved-trajectory airborne synthetic aperture radar. International Journal of Remote Sensing, 0, , 1-23.	2.9	3
58	A Novel Method for Abrupt Motion Change Radar Target Detection Based on Generalized Radon-Fourier Transform. , 2019, , .		3
59	A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic SAR. , 2019, , .		3
60	Interpolation Free Wide Nonlinear Chirp Scaling Algorithm for Spaceborne Stripmap Range Sweep SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 621-625.	3.1	3
61	Joint Masterâ€“Slave Yaw Steering for Bistatic Spaceborne SAR With an Arbitrary Configuration. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1426-1430.	3.1	3
62	Analytic Constraint Between Minimum Number of Acquisitions and SNR in SAR Tomography. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
63	A novel autofocusing technique based on PGA for the polarimetric SAR application. , 2012, , .		2
64	Height resolution analysis in geosynchronous SAR. Electronics Letters, 2015, 51, 579-581.	1.0	2
65	Implementation of CS coefficient calculation based on dualâ€operator engines in multimode spaceborne SAR imaging systems. Electronics Letters, 2018, 54, 163-165.	1.0	2
66	Effect analysis of antenna translation vibration on GEO SARimage. Journal of Engineering, 2019, 2019, 6421-6425.	1.1	2
67	Fast overlapped subaperture algorithm for high-squint spotlight SAR imaging. International Journal of Remote Sensing, 2020, 41, 6051-6070.	2.9	2
68	Time-Varying Nadir Echo Suppression for Spaceborne Stripmap Range Sweep Synthetic Aperture Radar via Waveform Diversity. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 826-830.	3.1	2
69	Dechirpâ€receiving radar target detection based on generalized Radonâ€Fourier transform. IET Radar, Sonar and Navigation, 2021, 15, 1096-1111.	1.8	2
70	Analysis and identification of continuous line target in SAR echo based on sidelobe features. Journal of Engineering, 2019, 2019, 5979-5981.	1.1	2
71	An Improved Imaging Method for Moving Target Based on Generalized Radon-Fourier Transform. , 2021, , .		2
72	Partial TMR method for onâ€orbit processors based on PageRank algorithm. Electronics Letters, 2019, 55, 124-126.	1.0	2

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73	A precise signal model for ultra high resolution SAR. , 2010, , .		1
74	A novel Doppler ambiguity resolver based on contrast maximization. , 2012, , .		1
75	A hybrid adaptive method for interferometric phase filtering based on the mode and median filter. , 2015, , .		1
76	An adaptive sar image speckle reduction algorithm based on wavelet transform and diffusion equations for marine scenes. , 2017, , .		1
77	Threeâ€dimensional optimal focusing imaging algorithm for wallâ€penetrating radar. Journal of Engineering, 2019, 2019, 6063-6066.	1.1	1
78	A two-step channel mismatch estimation and compensation method for distributed MC SAR. International Journal of Remote Sensing, 2021, 42, 7031-7052.	2.9	1
79	Parametric reconstruction of arc-shaped structures in synthetic aperture radar imaging. International Journal of Remote Sensing, 2021, 42, 7143-7165.	2.9	1
80	Dual-Frequency SAR Tomography with Long Sparse Non-Uniform Baseline in Ground-Based Lunar Mapping. , 2021, , .		1
81	Spatial Resolution Improvement via Radar Parameter Adjustment for Extremely-High-Squint Spotlight SAR. , 2021, , .		1
82	Imaging algorithm for multiâ€channel scan synthetic aperture radar with channel error estimation and compensation. Journal of Engineering, 2019, 2019, 6688-6691.	1.1	1
83	Novel acceleration compensation method for highly squint mode SAR with curve trajectory. Journal of Engineering, 2019, 2019, 6527-6532.	1.1	1
84	Earth-Based Repeat-Pass SAR Interferometry of the Moon: Spatialâ€“Temporal Baseline Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	1
85	Study on the method of parameters analysis and scan mode of missile-borne SAR. , 2011, , .		0
86	Ionospheric Experiment Validation and Compensation. , 2018, , 189-229.		0
87	Road Detection in High-resolution SAR Images with Improved Multiple Feature Fusion. , 2019, , .		0
88	Estimating ground moving-target parameters for hybrid baseline multi-channel SAR based on migration features in the complex image domain. International Journal of Remote Sensing, 2021, 42, 6107-6125.	2.9	0
89	Three-Dimensional Asteroid Reconstruction Via Multi-Aspect Ground-Based Sar Images: An Optimization Comparison. , 2021, , .		0
90	Resolution analysis for geostationary spaceborneâ€airborne bistatic forwardâ€looking SAR. Journal of Engineering, 2019, 2019, 5999-6002.	1.1	0

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91	SAR ground moving target's alongâ€track velocity estimation in the complex image domain via SoWVD. Journal of Engineering, 2019, 2019, 7026-7029.	1.1	0
92	Modelling of continuously distributed target for bistatic synthetic aperture radar imaging. Journal of Engineering, 2020, 2020, 107-110.	1.1	0
93	Refined Multifrequency Interferometric SAR Phase Unwrapping for Extremely Steep Terrain. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	0
94	Improving the Split-Spectrum Method for Sentinel-1 Differential TOPSAR Interferometry. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0